	Application No.	Applicant(s)
Notice of Allowability	10/063,602	EATON ET AL.
	Examiner	Art Unit
	Sandra Wegert	1647
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
2. The allowed claim(s) is/are <u>1-5</u> .		
3.	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declara t be submitted. on's Patent Drawing Review (PTO- as Amendment / Comment or in the (B4(c)) should be written on the drawing he header according to 37 CFR 1.1216 sit of BIOLOGICAL MATERIAL	national stage application from the complying with the requirements A'S AMENDMENT or NOTICE OF ation is deficient. 948) attached Office action of ags in the front (not the back) of (d). must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7/7/06, 9/14/06 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☒ Examiner's Amenda 8. ☒ Examiner's Statema 9. ☐ Other	(PTO-413), te .

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DETAILED ACTION

The Information Disclosure Statements, submitted 7 July 2006 and 14 September 2006, have been entered into the record. Claim 6 has been cancelled by the Applicant.

Claims 1-5 are being examined.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with AnneMarie Kaiser 20 November 2006.

The application has been amended as follows:

Please replace Claim 4 with the following:

4. A fragment of the antibody of claim 1 which specifically binds the polypeptide of SEQ ID NO: 94.

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The claims of the instant invention are directed to an isolated antibody directed against the polypeptide of SEQ ID NO: 94. The specification provides several asserted utilities at page 93, including that the PRO polypeptide to which the antibody binds may be differentially expressed in a diseased tissue as compared to a normal tissue of the same tissue type.

Applicants state at page 6 of their response that the gene expression data in the specification, Example 18, shows that the mRNA associated with the PRO1328 polypeptide was more highly expressed in normal lung tissue compared to lung tumor tissue and melanoma as compared to normal skin. Gene expression was analyzed using standard semi-quantitative PCR amplification reactions of cDNA libraries isolated from different human tumor and normal human tissue samples. Identification of the differential expression of the PRO1328 polypeptide-encoding gene in tumor tissue compared to the corresponding normal tissue renders the molecule useful and enabled as a diagnostic tool for the determination of the presence or absence of tumor.

Example 18 at page 140 of the instant specification demonstrates differential expression of PRO1328 cDNA using quantitative PCR amplification reactions.

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DNA66658-1584 was shown to be more highly expressed in normal lung tissue compared to lung tumor tissue and melanoma tissue as compared to normal skin in this Example. Applicant states at page 6 of the response that Example 18 utilizes a more accurate and reliable method of assessing changes in mRNA levels, namely quantitative PCR analysis. Applicant relies on more than 140 references (see IDS filed 7/7/06 and 9/14/06), where expression levels of mRNA, measured by quantitative PCR, were found to have a good correlation to the expressed protein levels.

It had been previously argued in the Office action mailed 03/06/06 that mRNA levels were not predictive of protein levels, citing references by Haynes et al., Gygi et al., and Chen et al. However, these references were measuring and analyzing mRNA levels using microarrays, not using quantitative PCR analysis and the art recognizes that the results obtained by microarray are not always the same as the results obtained using quantitative PCR (for example, see Oda et al. Virchows Arch. 430: 99-105, 1997, specifically page 104, column 1, paragraph 2). While the PTO found several references in which the protein expression levels did not correlate with mRNA levels measured by quantitative PCR (see Sugg et al., Clinical Endocrinology 49: 629-637, 1998; Toler et al., Am. J. Obstet. Gynecol. 194: e27-e31, 2006; Berner et al. Histopathol. 42: 546-554, 2003; Brooks et al. Am. J. Physiol. Renal Physiol. 284: F218-F228, 2003), the majority of the references which were found, including those cited by Applicant, demonstrated a correlation between mRNA levels measured by quantitative PCR and protein expression levels.

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Applicants assert that the expression levels of protein correlate to mRNA (cDNA) levels when the cDNA is measured by quantitative PCR (i.e. rtPCR). Applicant has provided more than 140 references in support of this position. The prior art of record (Haynes et al., Gygi et al., Chen et al.), argued by the Examiner, is not specifically directed to message levels measured by rtPCR. Based on the totality of evidence of record, one of skill in the art would find it more likely than not that an increase in message as measured by rtPCR would be predictive of an increase in protein expression levels, absent evidence to the contrary. Therefore, the data presented in Example 18, which demonstrates differential expression of nucleic acids encoding PRO1328, also supports a conclusion of differential expression of the PRO1328 polypeptide. Therefore, one of ordinary skill in the art would be able to use the PRO1328 antibody diagnostically for distinguishing normal lung tissue compared to lung tumor tissue and melanoma tissue as compared to normal skin, as asserted by Applicant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sandra Wegert whose telephone number is (571) 272-

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0895. The examiner can normally be reached Monday - Friday from 9:00 AM to 5:00 PM (Eastern Time). If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Brenda Brumback, can be reached at (571) 272-0961.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SLW

21 November 2006

EILEEN B. O'HARA PRIMARY EXAMINER

Eleen B.O Hara